



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **04029650 A**(43) Date of publication of application: **31.01.92**

(51) Int. Cl

F16H 3/66
F16H 3/62
(21) Application number: **02132612**(71) Applicant: **NISSAN MOTOR CO LTD**(22) Date of filing: **24.05.90**(72) Inventor: **HATTORI NOBORU**(54) **PLANET GEAR TRANSMISSION SYSTEM**

(57) Abstract:

PURPOSE: To transmit power by a plurality of speed change ratios from an input shaft to an output shaft by providing constitution so as to make showing possible by one line by arranging the first, second, third and fourth members successively in this order on a collinear drawing and by the separate one line by arranging the fifth, sixth and seventh members successively in this order on a collinear drawing.

CONSTITUTION: Because of constitution such that suitable separation can be attained by releasing the third clutch C3 with always no connection between members (4), (6), the sixth member (6) can be prevented from rotating in a reverse direction to an input shaft I accompanied with the fourth member (4). Here, the sixth member (6) is rotated in an equal direction to the input shaft along the seventh member (7)(ring gear R_1), normally fixed through a pinion P_1 , and at a speed, determined by gear ratio between a sun gear S_1 and a ring gear R_1 , by the fifth member (5)(sun gear S_1) rotated with the input shaft I. Accordingly, a problem of a conventional mechanism in both points of gear noise and durability can be eliminated by suppressing rotation of the pinion P_1 with no relative rotation at a high

speed of the sixth member (6) relating to the fifth and seventh members (5), (7).

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